

Figure 1

**Resolution Limit vs. Aperture Diameter for 2.5 mm BK-7
Ball Lens with a Cover Glass
(Illumination $\lambda = 550 \text{ nm}$)**

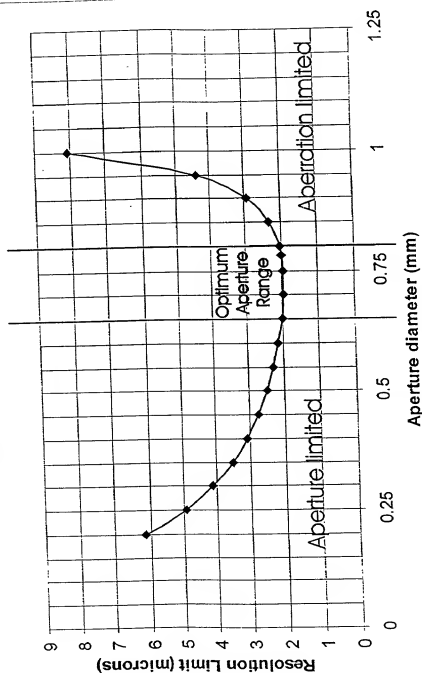


Figure 2

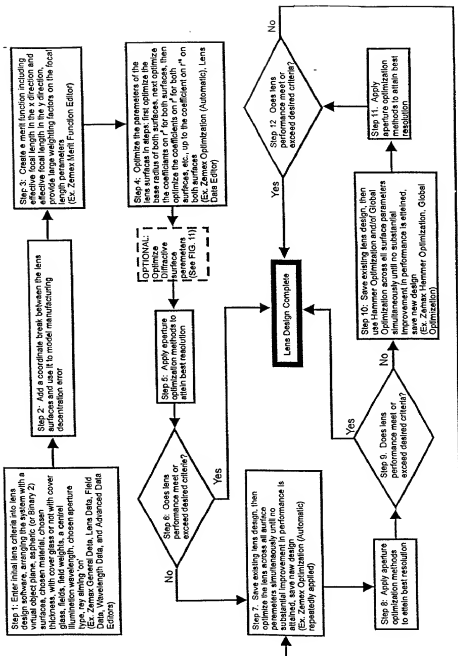
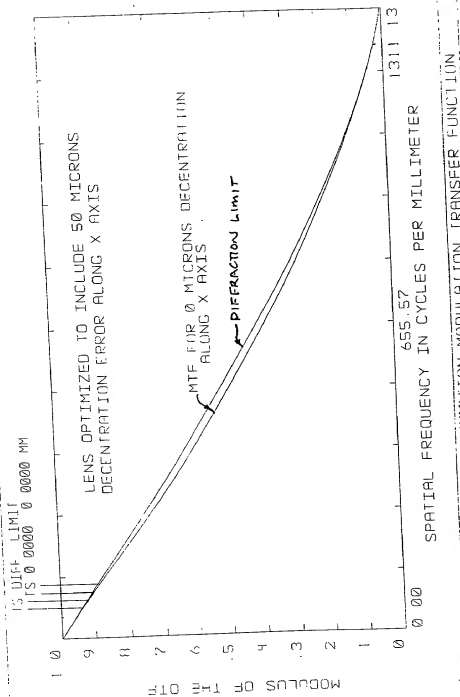


Figure 4



POLYCHROMATIC DIFFRACTION MODULATION TRANSFER FUNCTION

MON MAR 27 2000
DATA FOR 0 5500 TO 0 5500 MICRONS

CAMERAPRISM PHOTOGRAPHY WITH 20 MICRON MICRONS LENS
CONFIGURATION 1 OF 1

Figure 6

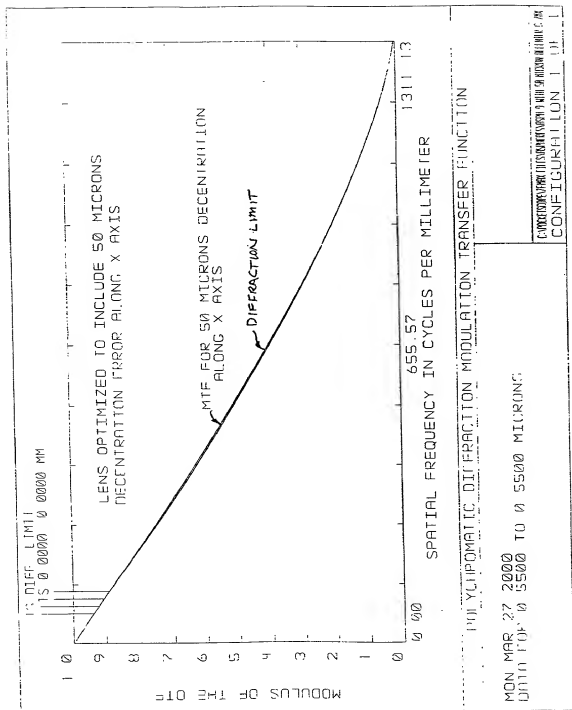
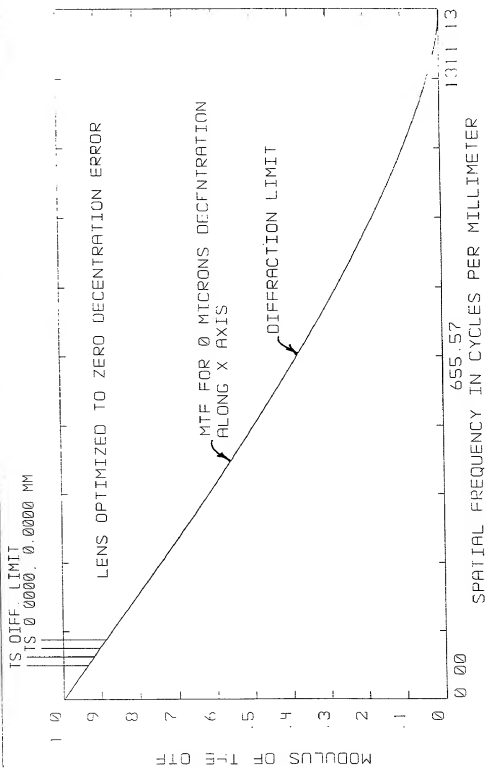


Figure 7



POLYCHROMATIC DIFFRACTION MODULATION TRANSFER FUNCTION

MON MAR 27 2000
DATA FOR 0.5500 TO 0.5500 MICRONS

C:\MSDC\CLAMP FILES\HPS\HPS00019 WITH A MICRON CLAMP C.ME
CONFIGURATION 1 U 1

Figure 9

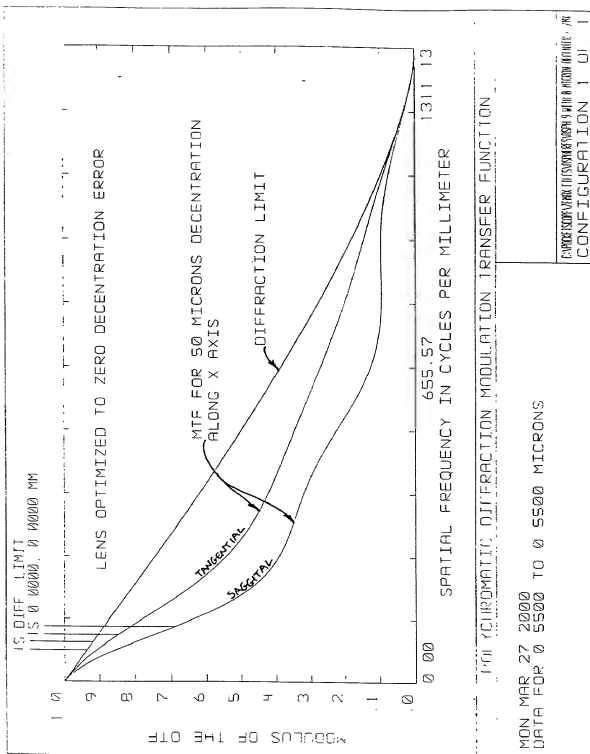


Figure 10

FIG. 4 OPTIONAL STEP

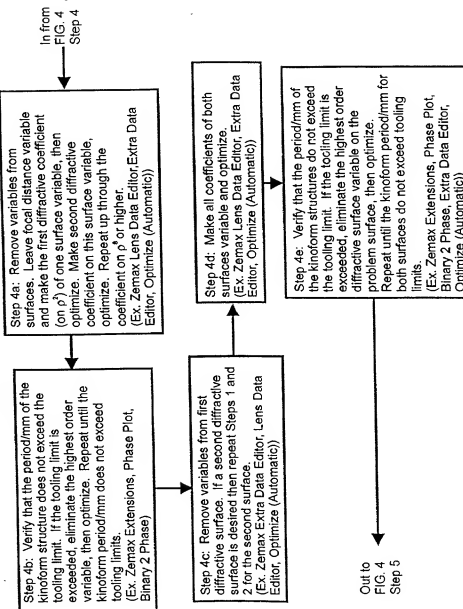


Figure 11

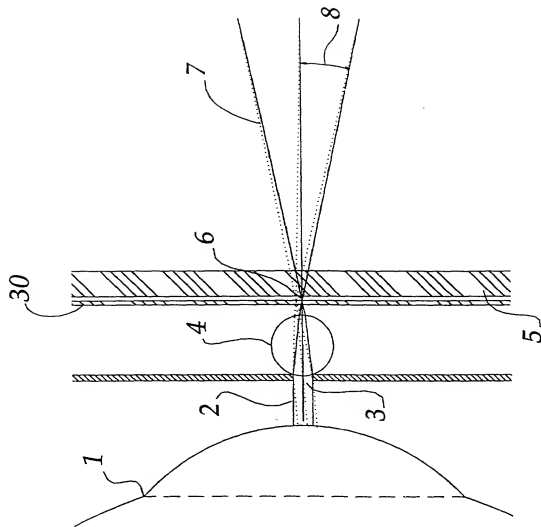


Figure 13

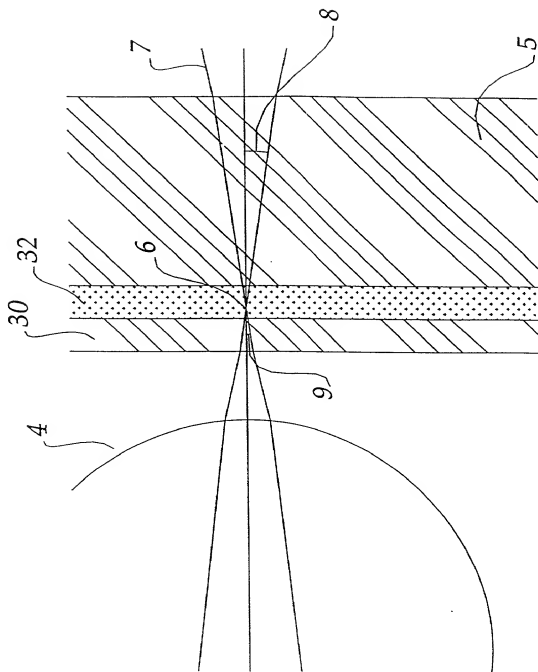
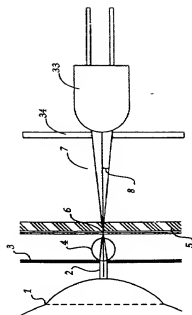
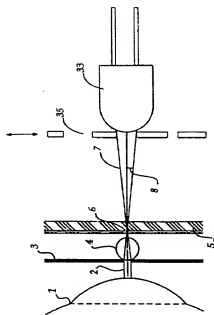


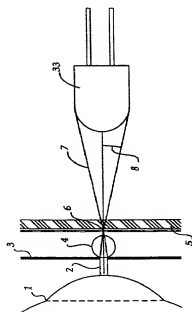
Figure 14



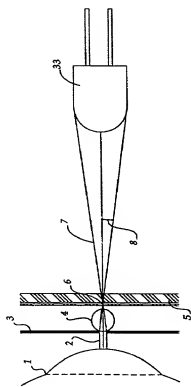
(c)



(D)



(A)



(B)

Figure 15

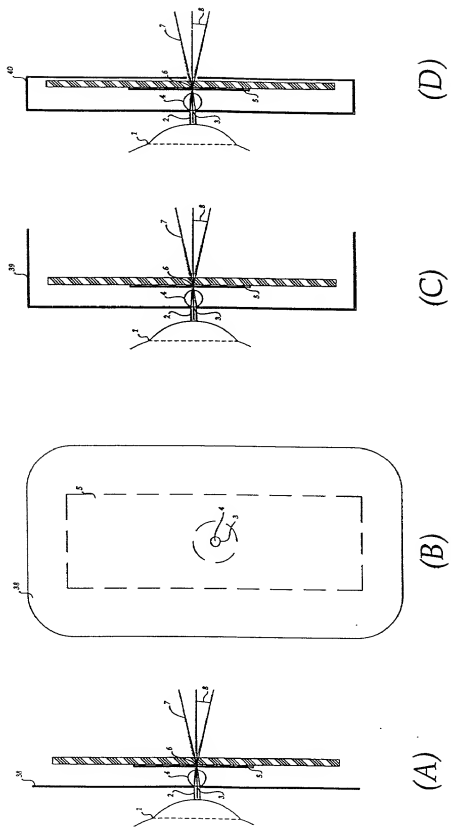


Figure 17

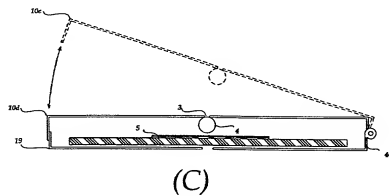
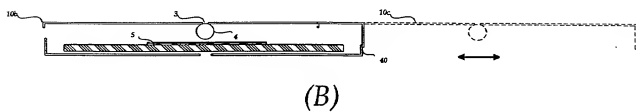
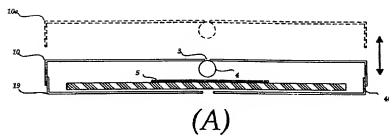


Figure 18

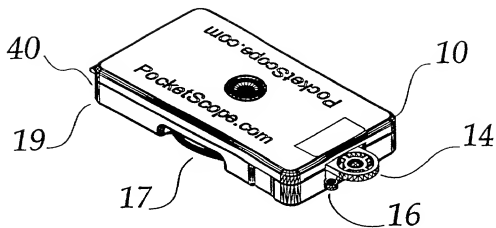


Figure 19

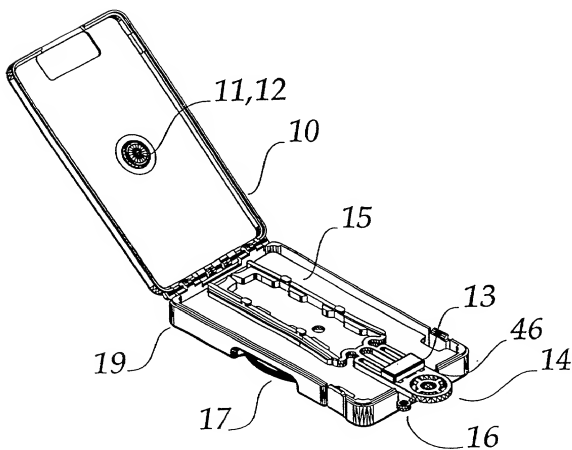


Figure 20

FIG. 21

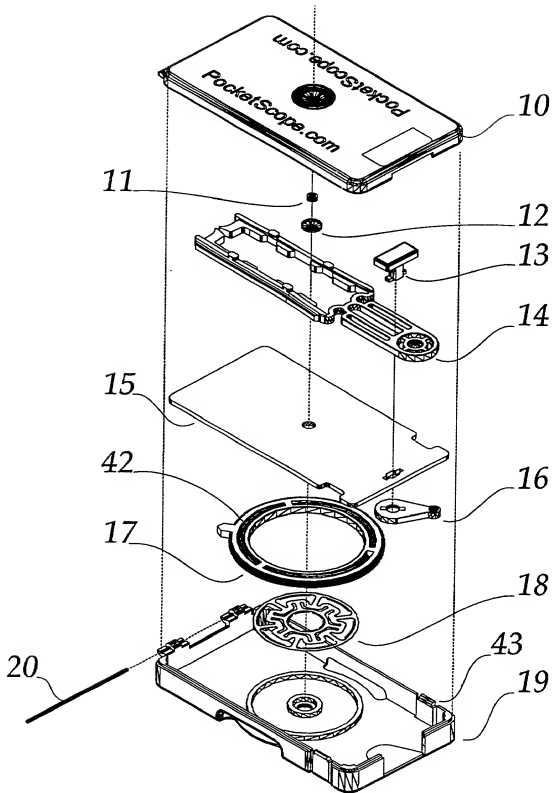


Figure 21

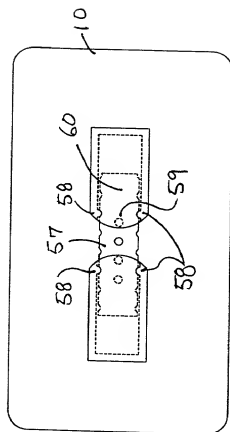
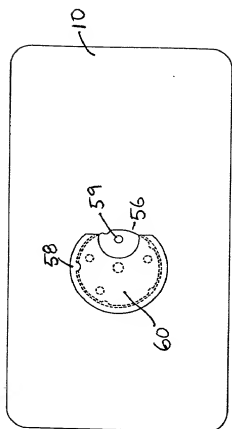


FIGURE 24

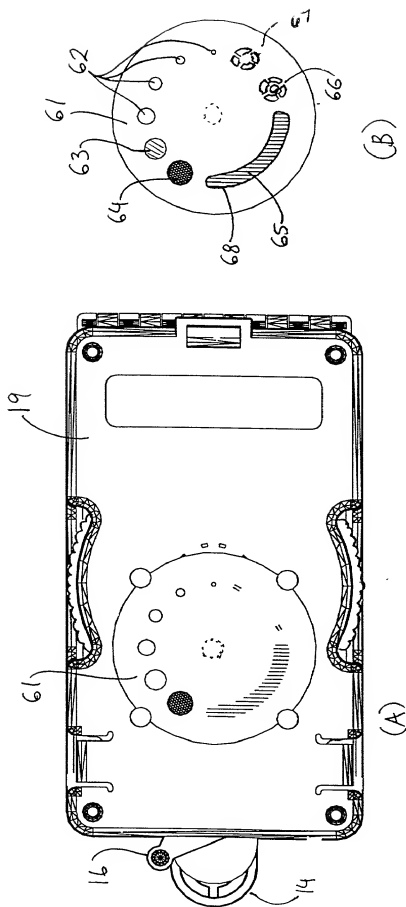


Figure 25

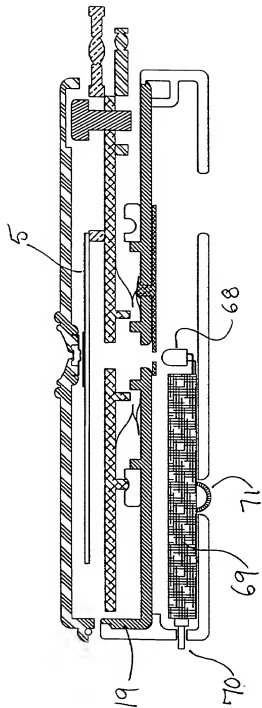


Figure 26

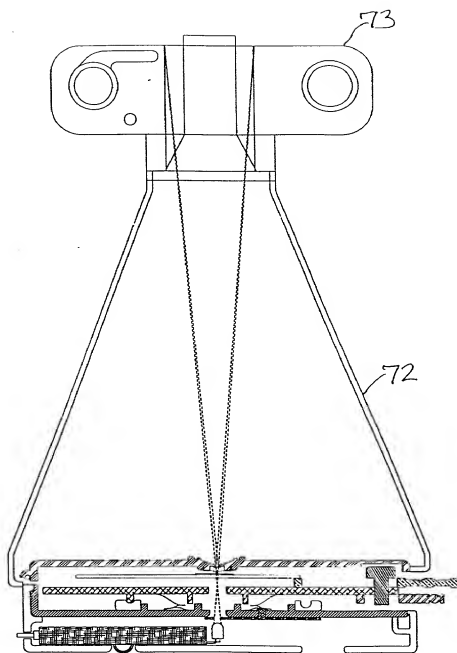


Figure 27

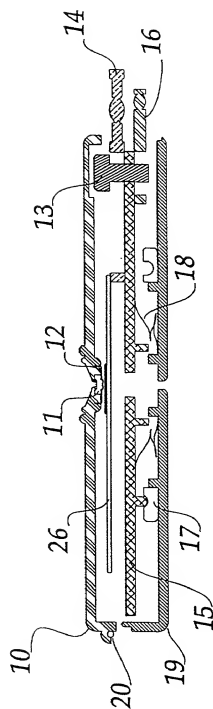


Figure 28

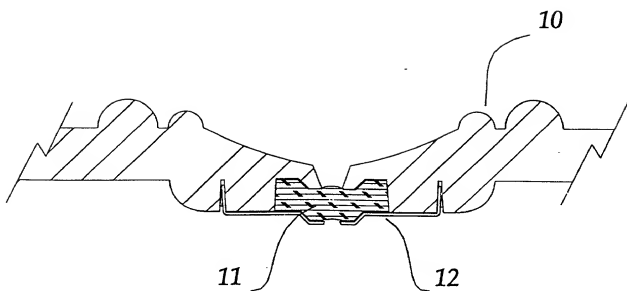


Figure 29

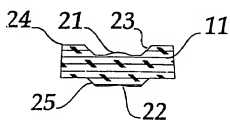


Figure 30

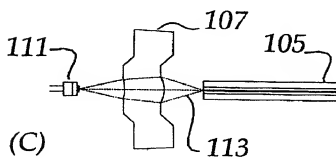
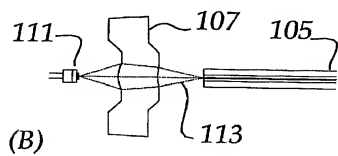
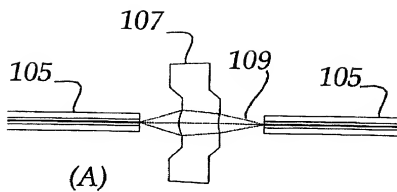


Figure 32